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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/520,489

DATE: 03/27/2000

TIME: 14:59:21

Input Set: I520489.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: BIOGEN, INC.
2 <120> TITLE OF INVENTION: April-A Novel Protein with Growth Defects
3 <130> FILE REFERENCE: A049PCT
4 <140> CURRENT APPLICATION NUMBER: US/09/520,489
5 <141> CURRENT FILING DATE: 2000-03-08
6 <150> EARLIER APPLICATION NUMBER: 60/079,384
7 <151> EARLIER FILING DATE: 1998-03-26
8 <150> EARLIER APPLICATION NUMBER: 60/058,756
9 <151> EARLIER FILING DATE: 1997-09-12
10 <160> NUMBER OF SEQ ID NOS: 4
11 <170> SOFTWARE: PatentIn Ver. 2.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 1346
14 <212> TYPE: DNA
15 <213> ORGANISM: Homo sapiens
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41 <211> LENGTH: 250
42 <212> TYPE: PRT
43 <213> ORGANISM: Homo sapiens
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45      Met Pro Ala Ser Ser Pro Phe Leu Leu Ala Pro Lys Gly Pro Pro Gly
46          1              5              10              15
47      Asn Met Gly Gly Pro Val Arg Glu Pro Ala Leu Ser Val Ala Leu Trp
48              20              25              30
49      Leu Ser Trp Gly Ala Ala Leu Gly Ala Val Ala Cys Ala Met Ala Leu
50              35              40              45
51      Leu Thr Gln Gln Thr Glu Leu Gln Ser Leu Arg Arg Glu Val Ser Arg
52              50              55              60
53      Leu Gln Gly Thr Gly Gly Pro Ser Gln Asn Gly Glu Gly Tyr Pro Trp
54              65              70              75              80
55      Gln Ser Leu Pro Glu Gln Ser Ser Asp Ala Leu Glu Ala Trp Glu Asn
56              85              90              95
57      Gly Glu Arg Ser Arg Lys Arg Arg Ala Val Leu Thr Gln Lys Gln Lys
58              100              105              110
59      Lys Gln His Ser Val Leu His Leu Val Pro Ile Asn Ala Thr Ser Lys
60              115              120              125
61      Asp Asp Ser Asp Val Thr Glu Val Met Trp Gln Pro Ala Leu Arg Arg
62              130              135              140
63      Gly Arg Gly Leu Gln Ala Gln Gly Tyr Gly Val Arg Ile Gln Asp Ala
64              145              150              155              160
65      Gly Val Tyr Leu Leu Tyr Ser Gln Val Leu Phe Gln Asp Val Thr Phe
66              165              170              175
67      Thr Met Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Gln Glu Thr
68              180              185              190
69      Leu Phe Arg Cys Ile Arg Ser Met Pro Ser His Pro Asp Arg Ala Tyr
70              195              200              205
71      Asn Ser Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp Ile
72              210              215              220
73      Leu Ser Val Ile Ile Pro Arg Ala Arg Ala Lys Leu Asn Leu Ser Pro
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78 <211> LENGTH: 917

79 <212> TYPE: DNA

80 <213> ORGANISM: murine

81 <400> SEQUENCE: 3

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84      tgatccaaca gacagagctg caaagcctaa ggcgaggagt gagccggctg cagcggagtg 180
85      gagggccttc ccagaagcag ggagagcgcc catggcagag cctctgggag cagagtcctg 240
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87      agaagcaca gaagaagcac tcagtctgc atctgttcc agttaacatt acctccaagg 360
88      actctgacgt gacagaggtg atgtggcaac cagtacttag gcgtgggaga ggccctggag 420
89      gccagggag acattgtacg agtctgggac actggaattt atctgctcta tagtcaggtc 480
90      ctgtttcatg atgtgacttt cacaatgggt caggtggtat ctcggaagg acaagggaga 540
91      agagaaactc tattccgatg tatcagaagt atgccttctg atcctgaccg tgcctacaat 600
92      agctgctaca gtgcagggtg ctttcattta catcaagggg atattatcac tgtcaaaatt 660
93      ccacgggcaa acgcaaaact tagcctttct ccgcatggaa cattcctggg gtttgtgaaa 720
94      ctatgattgt tataaagggg gtggggattt cccattccaa aaactggcta gacaaaggac 780

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97      tgtttatctc ccaaaaaa                                     917
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100     <212> TYPE: PRT
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102     <400> SEQUENCE: 4
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106             20             25             30
107     Ile Gln Gln Thr Glu Leu Gln Ser Leu Arg Arg Glu Val Ser Arg Leu
108             35             40             45
109     Gln Arg Ser Gly Gly Pro Ser Gln Lys Gln Gly Glu Arg Pro Trp Gln
110             50             55             60
111     Ser Leu Trp Glu Gln Ser Pro Asp Val Leu Glu Ala Trp Lys Asp Gly
112             65             70             75             80
113     Ala Lys Ser Arg Arg Arg Arg Ala Val Leu Thr Gln Lys His Lys Lys
114             85             90             95
115     Lys His Ser Val Leu His Leu Val Pro Val Asn Ile Thr Ser Lys Asp
116             100             105             110
117     Ser Asp Val Thr Glu Val Met Trp Gln Pro Val Leu Arg Arg Gly Arg
118             115             120             125
119     Gly Pro Gly Gly Gln Gly Asp Ile Val Arg Val Trp Asp Thr Gly Ile
120             130             135             140
121     Tyr Leu Leu Tyr Ser Gln Val Leu Phe His Asp Val Thr Phe Thr Met
122             145             150             155             160
123     Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Arg Glu Thr Leu Phe
124             165             170             175
125     Arg Cys Ile Arg Ser Met Pro Ser Asp Pro Asp Arg Ala Tyr Asn Ser
126             180             185             190
127     Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp Ile Ile Thr
128             195             200             205
129     Val Lys Ile Pro Arg Ala Asn Ala Lys Leu Ser Leu Ser Pro His Gly
130             210             215             220
131     Thr Phe Leu Gly Phe Val Lys Leu
132     225             230

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Line ? Error/Warning

Original Text
